**Problem solving challenges 2020**

Work out the answers to the following calculations. You are NOT allowed to use column methods, jottings or a calculator!

1. 19 x 24
2. 198 + 997
3. Half of 57.6
4. 3841 – 665.3
5. 5.2 ÷ 4
6. 101 x 16 x 4
7. Jessica is rowing along the coast to Sunshine Cove. Each day she rows less because she gets more tired. On the first day she covers 38 kilometres, on the second day 35 kilometres, on the third day 32 kilometres and on the fourth day 29 kilometres. How many days will is take her to cover the distance of 203 kilometres to Sunshine Cove?
8. Letter challenge

Each letter represents one of the ten single digits (0 to 9). Use what you know about number to solve the following calculations

0 1 2 3 4 5 6 7 8 9

E X F = HA

I X H = D

A X B = B

J X D = IG

C X C = EC

1. You have been asked to bury some bags of money on an island. The money has been divided into nine separate bags containing these amounts:

£21, £20, £19, £12, £11, £10, £3, £2, £1.

You must bury the money in a three by three grid so that each row and column,

horizontal, vertical and diagonal has £33.